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# Scaling Up Alternative Energy

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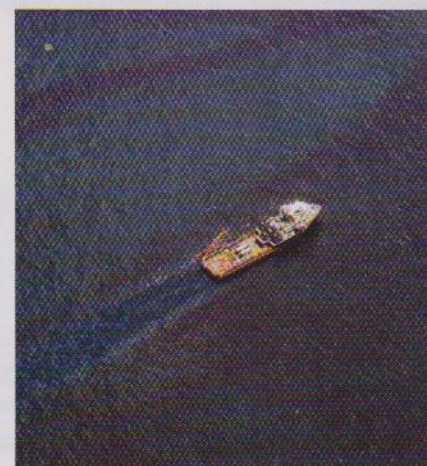
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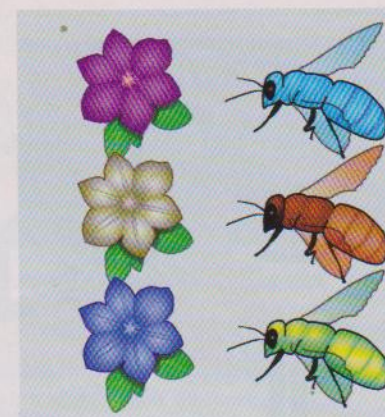
A large-scale algae growing system. Oil extraction from algae is one approach being actively explored to replace petroleum as an energy source. A special section beginning on page 779 highlights worldwide research efforts aimed at scaling up this and other carbon-neutral processes to generate cleaner power.  
*Photo: Ashley Cooper/Visuals Unlimited, Inc.*

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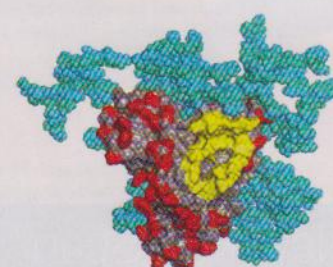
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10.1126/science.1189664

**Survivin Reads Phosphorylated Histone H3 Threonine 3 to Activate the Mitotic Kinase Aurora B**

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10.1126/science.1195253

## SCIENCENOW

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Bursts of brain activity keep heavy sleepers from waking.

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Reprogramming common cells could help repair damage from heart attacks.

## SCIENCE SIGNALING

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The Signal Transduction Knowledge Environment

**RESEARCH ARTICLE: The PI3K Isoforms p110 $\alpha$  and p110 $\delta$  Are Essential for Pre-B Cell Receptor Signaling and B Cell Development**

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**NETWATCH: GenBank, Gene Expression Omnibus (GEO), and Worldwide Protein Data Bank (wwPDB)**

Deposit sequence, microarray, and structural data into public data banks; in Technical Information.

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[www.sciencereers.org/career\\_magazine](http://www.sciencereers.org/career_magazine)

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**Scientist's Work Bridges Math and Cancer**

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**Improving Science Through Animal Welfare**

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First trained as a biology and geology teacher, Portuguese researcher Nuno Henrique Franco looks to improve science by improving animal welfare.

## SCIENCE TRANSLATIONAL MEDICINE

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**COMMENTARY: Pharmacy Benefit Managers, Pharmacies, and Pharmacogenomic Testing—Prescription for Progress?**

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**RESEARCH ARTICLE: Bacteria-Induced Gap Junctions in Tumors Favor Antigen Cross-Presentation and Antitumor Immunity**

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SCIENCE SIGNALING  
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**RESEARCH ARTICLE: Fatty Acid Oxidation and Malonyl-CoA Decarboxylase in the Vascular Remodeling of Pulmonary Hypertension**

*G. Sutendra et al.*

The overgrowth of vascular cells that causes pulmonary hypertension can be prevented by inhibiting a metabolic shift toward glycolysis.

## SCIENCE PODCAST

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